# COMMONWEALTH of VIRGINIA

*DEPARTMENT OF ENVIRONMENTAL QUALITY*
NORTHERN REGIONAL OFFICE
13901 Crown Court, Woodbridge, Virginia 22193
(703) 583-3800 Fax (703) 583-3801
www.deq.virginia.gov

Preston Bryant
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director


October 25, 2007

Robert Williams
Dominion Virginia Power
5000 Dominion Blvd
Glen Allen, VA 23060

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: Reissuance of VPDES Permit No. VA0002071
Dominion – Possum Point Power Station, Prince William County

Dear Mr. Williams:

The Department of Environmental Quality (DEQ) has approved the enclosed effluent limitations and monitoring requirements for the above-referenced permit. A copy of your Permit and the Discharge Monitoring Report (DMRs) forms are included in this package. Please make additional copies of the DMRs for future use. The first DMR for the month of November is due by December 10, 2007. Please send DMRs to:

Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193-1453

Please reference the effluent limits in your permit and report monitoring results on the DMRs to the same number of significant digits as are included in the permit limits for the parameter.

Note that DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. If you are interested in participating in this program, please visit the following website for details: http://www.deq.virginia.gov/water/edmrfaq.html.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first)within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternately, any owner under §§ 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in §1.23(b) of the Board's Procedural Rule No. 1. In case involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have questions about the permit, please contact Susan D. Mackert at (703)583-3853, or by E-mail at sdmackert@deq.virginia.gov.

Sincerely,

Thomas A. Faha
Regional Director

Enc.: Permit No. VA0002071

cc: DEQ-Water, OWPP
EPA-Region III, 3WP12
Department of Health, Culpeper
Water Compliance, NVRO
Water Resources Development, NVRO

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| VA0002071 | 001 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | | | | TO | | | |

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 1/M | EST |
| 002 PH | REPORTD | ********* | ********* | | | ********* | | | | | |
| | REQRMNT | ********* | ********* | | 6.0 | ********* | 9.0 | SU | 0 | 1/M | GRAB |
| 082 HEAT REJ**8 | REPORTD | ********* | | | ********* | ********* | ********* | | | | |
| | REQRMNT | ********* | 5.58 | BTU/H | ********* | ********* | ********* | | 0 | CONT | CALC |
| 158 CL2, TOTAL FINAL | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 0.022 | 0.032 | MG/L | 0 | 2/M | GRAB |
| 704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA | REPORTD | ********* | | | ********* | ********* | | | | | |
| | REQRMNT | ********* | ******** | | ********* | ********* | NL | TU-A | 0 | 1/YR | GRAB |
| 721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA | REPORTD | ********* | | | ********* | ********* | | | | | |
| | REQRMNT | ********* | ******** | | ********* | ********* | NL | TU-C | 0 | 1/YR | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS
This outfall is considered 001/002.

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 05/08/2008

**DEPT. OF ENVIRONMENTAL QUALITY**
(REGIONAL OFFICE)
Northern Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

| VA0002071 | 003 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | | | | TO | | | |

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 1/M | EST |
| 002 PH | REPORTD | ********* | ********* | | | ********* | | | | | |
| | REQRMNT | ********* | ********* | | 6.0 | ********* | 9.0 | SU | 0 | 1/M | GRAB |
| 083 HEAT REJ**9 | REPORTD | ********* | | | ********* | ********* | ********* | | | | |
| | REQRMNT | ******** | 1.14 | BTU/H | ********* | ********* | ********* | | 0 | CONT | CALC |
| 158 CL2, TOTAL FINAL | REPORTD | | | | | | | | | | |
| | REQRMNT | ******** | ******** | | | 0.022 | 0.032 | MG/L | 0 | 2/M | GRAB |
| 442 COPPER, DISSOLVED (UG/L AS CU) | REPORTD | | | | ********* | | | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | NL | UG/L | 0 | 1/6M | GRAB |
| 704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA | REPORTD | ********* | ********* | | ********* | ********* | | | | | |
| | REQRMNT | ********* | ********* | | ********* | ********* | NL | TU-A | 0 | 1/YR | GRAB |
| 721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA | REPORTD | ********* | ********* | | ********* | ********* | | | | | |
| | REQRMNT | ********* | ********* | | ********* | ********* | NL | TU-C | 0 | 1/YR | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

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| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| **TYPED OR PRINTED NAME** | **SIGNATURE** | **CERTIFICATE NO.** | **YEAR** | **MO.** | **DAY** |
| **PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT** | | **TELEPHONE** | | | |
| | | | | | |
| **TYPED OR PRINTED NAME** | **SIGNATURE** | | **YEAR** | **MO.** | **DAY** |

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

| VA0002071 | 004 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

| MONITORING PERIOD | | | | | | |
|---|---|---|---|---|---|---|
| | YEAR | MO | DAY | | YEAR | MO | DAY |
| FROM | | | | TO | | | |

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 2/M | EST |
| 002 PH | REPORTD | ********* | ********* | | | ********* | | | | | |
| | REQRMNT | ********* | ********* | | 6.0 | ********* | 9.0 | SU | 0 | 2/M | GRAB |
| 004 TSS | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 30. | 100. | MG/L | 0 | 2/M | GRAB |
| 012 PHOSPHORUS, TOTAL (AS P) | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 013 NITROGEN, TOTAL (AS N) | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 039 AMMONIA, AS N | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 068 TKN (N-KJEL) | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 082 HEAT REJ**8 | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | ******** | 1.9 | BTU/H | ********* | ********* | ********* | | 0 | 2/M | CALC |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

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| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| VA0002071 | 004 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

| MONITORING PERIOD | | | | | | |
|---|---|---|---|---|---|---|
| | YEAR | MO | DAY | | YEAR | MO | DAY |
| FROM | | | | TO | | | |

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 158 CL2, TOTAL FINAL | REPORTD | | | | ********* | | | | | | |
| | REQRMNT | ******** | ******** | | ********* | 0.022 | 0.032 | MG/L | 0 | 1/W | GRAB |
| 389 NITRITE+NITRATE-N,TOTAL | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 500 OIL & GREASE | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 15. | 20. | MG/L | 0 | 2/M | GRAB |
| 704 NOAEC - ACUTE 48 HR STAT CERIODAPHNIA DUBIA | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-A | 0 | 1/YR | GRAB |
| 705 NOAEC - ACUTE 48 HR STAT PIMEPHALES PROMELAS | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-A | 0 | 1/YR | GRAB |
| 720 TUc - CHRONIC 3-BROOD STATRE CERIODAPHNIA DUBIA | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-C | 0 | 1/YR | GRAB |
| 721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-C | 0 | 1/YR | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

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| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
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FACILITY LOCATION 19000 Possum Point Rd

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| VA0002071 | 005 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | | | | TO | | | |

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 2/M | EST |
| 002 PH | REPORTD | ********* | ********* | | | ********* | | | | | |
| | REQRMNT | ********* | ********* | | 6.0 | ********* | 9.0 | SU | 0 | 2/M | GRAB |
| 004 TSS | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 30. | 50. | MG/L | 0 | 2/M | GRAB |
| 012 PHOSPHORUS, TOTAL (AS P) | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 013 NITROGEN, TOTAL (AS N) | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 039 AMMONIA, AS N | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 068 TKN (N-KJEL) | REPORTD | | | | ********* | | ********* | | | | |
| | REQRMNT | ******** | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |
| 389 NITRITE+NITRATE-N,TOTAL | REPORTD | ********* | | | ********* | | ********* | | | | |
| | REQRMNT | ********* | ******** | | ********* | NL | ********* | MG/L | 0 | 1/3M | GRAB |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
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| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| VA0002071 | 005 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | | | | TO | | | |

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 500 OIL & GREASE | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 15. | 20. | MG/L | 0 | 2/M | GRAB |
| 711 TUa - ACUTE 48 HR STAT CERIODAPHNIA DUBIA | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-A | 0 | 1/YR | GRAB |
| 712 TUa - ACUTE 48 HR STAT PIMEPHALES PROMELAS | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-A | 0 | 1/YR | GRAB |
| 720 TUc - CHRONIC 3-BROOD STATRE CERIODAPHNIA DUBIA | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-C | 0 | 1/YR | GRAB |
| 721 TUc - CHRONIC 7-DAY STATRE PIMEPHALES PROMELA | REPORTD | | | | ********* | ********* | | | | | |
| | REQRMNT | ******** | ******** | | ********* | ********* | NL | TU-C | 0 | 1/YR | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

**DEPT. OF ENVIRONMENTAL QUALITY**
(REGIONAL OFFICE)

Northern Va. Regional Office
13901 Crown Court

Woodbridge VA 22193

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060

FACILITY LOCATION 19000 Possum Point Rd

| VA0002071 | 007 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | | | | TO | | | |

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | | ********* | ********* | ********* | | 0 | 1/3M | MEAS |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

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| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

| VA0002071 | 008 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

| MONITORING PERIOD | | | | | | |
|---|---|---|---|---|---|---|
| | YEAR | MO | DAY | | YEAR | MO | DAY |
| FROM | | | | TO | | | |

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.**

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 1/3M | MEAS |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

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| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

| VA0002071 | 201 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | | | | TO | | | |

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 1/D-M | EST |
| 002 PH | REPORTD | ********* | ********* | | | ********* | | | | | |
| | REQRMNT | ********* | ********* | | 6.0 | ********* | 9.0 | SU | 0 | 1/D-W | GRAB |
| 016 CHROMIUM, TOTAL (AS CR) | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 0.2 | 0.2 | MG/L | 0 | 1/D-M | GRAB |
| 020 ZINC, TOTAL (AS ZN) | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 1.0 | 1.0 | MG/L | 0 | 1/D-M | GRAB |
| 044 CL2, FREE | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 0.2 | 0.5 | MG/L | 0 | 1/D-W | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

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| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

Industrial Major 10/19/2007

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

| VA0002071 | 202 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

| MONITORING PERIOD | | | | | | |
|---|---|---|---|---|---|---|
| | YEAR | MO | DAY | | YEAR | MO | DAY |
| FROM | | | | TO | | | |

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 1/D-M | EST |
| 002 PH | REPORTD | ********* | ********* | | | ********* | | | | | |
| | REQRMNT | ********* | ********* | | 6.0 | ********* | 9.0 | SU | 0 | 1/D-W | GRAB |
| 016 CHROMIUM, TOTAL (AS CR) | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 0.2 | 0.2 | MG/L | 0 | 1/D-M | GRAB |
| 020 ZINC, TOTAL (AS ZN) | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 1.0 | 1.0 | MG/L | 0 | 1/D-M | GRAB |
| 044 CL2, FREE | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 0.2 | 0.5 | MG/L | 0 | 1/D-W | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

| VA0002071 | 501 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

| MONITORING PERIOD | | | | | | |
|---|---|---|---|---|---|---|
| | YEAR | MO | DAY | | YEAR | MO | DAY |
| FROM | | | | TO | | | |

Industrial Major 10/19/2007

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 1/D-M | EST |
| 004 TSS | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 30. | 100. | MG/L | 0 | 1/D-M | GRAB |
| 019 COPPER, TOTAL (AS CU) | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 1.0 | 1.0 | MG/L | 0 | 1/D-M | GRAB |
| 031 IRON, TOTAL (AS FE) | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 1.0 | 1.0 | MG/L | 0 | 1/D-M | GRAB |
| 500 OIL & GREASE | REPORTD | ********* | ********* | | ********* | | | | | | |
| | REQRMNT | ********* | ********* | | ********* | 15. | 20. | MG/L | 0 | 1/D-M | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Dominion - Possum Point Power Station
ADDRESS 5000 Dominion Blvd
Glen Allen VA 23060
FACILITY LOCATION 19000 Possum Point Rd

# COMMONWEALTH OF VIRGINIA
# DEPARTMENT OF ENVIRONMENTAL QUALITY
## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
## DISCHARGE MONITORING REPORT(DMR)

| VA0002071 | 502 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

| MONITORING PERIOD | | | | | | |
|---|---|---|---|---|---|---|
| | YEAR | MO | DAY | | YEAR | MO | DAY |
| FROM | | | | TO | | | |

Industrial Major 10/19/2007

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Northern Va. Regional Office
13901 Crown Court
Woodbridge VA 22193

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. EX. | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| 001 FLOW | REPORTD | | | | ********* | ********* | ********* | | | | |
| | REQRMNT | NL | NL | MGD | ********* | ********* | ********* | | 0 | 2/M | EST |
| 257 PETROLEUM HYDROCARBONS, TOTAL RECOVI | REPORTD | | | | ********* | | | | | | |
| | REQRMNT | ******** | ******** | | ********* | 30 | 60 | MG/L | 0 | 2/M | GRAB |
| | REPORTD | | | | | | | | | | |
| | REQRMNT | | | | | | | | | ******* | |
| | REPORTD | | | | | | | | | | |
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ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

| BYPASSES AND OVERFLOWS | TOTAL OCCURRENCES | TOTAL FLOW(M.G.) | TOTAL BOD5(K.G.) |
|---|---|---|---|
| | | | |

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

| OPERATOR IN RESPONSIBLE CHARGE | | | DATE | | |
|---|---|---|---|---|---|
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | CERTIFICATE NO. | YEAR | MO. | DAY |
| PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | TELEPHONE | | | |
| | | | | | |
| TYPED OR PRINTED NAME | SIGNATURE | | YEAR | MO. | DAY |

**THIS REPORT IS REQUIRED BY LAW (33 U. S. C. § 1318 40 CFR 122.60). FAILURE TO REPORT OR FAILURE TO REPORT TRUTHFULLY CAN RESULT IN CIVIL PENALTIES NOT TO EXCEED $10,000 PER DAY OF VIOLATION: OR IN CRIMINAL PENALTIES NOT TO EXCEED $25,000 PER DAY OF VIOLATION OR BY IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH.**

## GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces are blank or a limitation appears, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and, if appropriate, maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading". KG/DAY = Concentration(mg/l) x Flow(MGD) x 3.785.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration".
6. Enter the number of samples which do not comply with the maximum and /or minimum permit requirements in the "reported" space in the column marked "No. Ex.".
7. Enter the actual frequency of analysis for each parameter (number of times per day, week, month) in the "reported" space in the column marked "Frequency of Analysis".
8. Enter the actual type of sample collected for each parameter in the "reported" space in the column marked "Sample Type".
9. Enter additional required data or comments in the space marked "additional permit requirements or comments".
10. Record the number of bypasses during the month, the total flow in million gallons and BOD5 in kilograms in the proper columns in the section marked "Bypasses and Overflows".
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator, the operator's certificate number should be reported in the space provided.
12. The principal executive officer should then review the form and sign in the space provided and provide a telephone number where he/she can be reached.
13. You are required to sample at the frequency and type indicated in your permit.
14. Send the completed form to your Dept. of Environmental Quality Regional Office by the 10th of each month.
15. You are required to retain a copy of the report for your records.
16. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each violation by date.
17. If you have any questions, contact the Dept. of Environmental Quality Regional Office.

# *COMMONWEALTH of VIRGINIA*

*DEPARTMENT OF ENVIRONMENTAL QUALITY*

Permit No.: VA0002071
Effective Date: October 24, 2007
Expiration Date: October 23, 2012

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner: Virginia Electric and Power Company
Facility Name: Possum Point Power Station
City: Dumfries
County: Prince William
Facility Location: 19000 Possum Point Road

The owner is authorized to discharge to the following receiving streams:

Stream: Potomac River, Quantico Creek and Quantico Creek, UT
River Basin: Potomac River
River Subbasin: Potomac River
Section: 06
Class: II
Special Standards: b

Thomas A. Faha
Director, Northern Regional Office
Department of Environmental Quality

10/24/07
Date

## A. Effluent Limitations and Monitoring Requirements

### 1. Outfall 001/002 – Seal Pit and Unit 3 Noncontact Cooling Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 001 / 002, from the Seal Pit. The waste streams from outfalls 001 / 002 are combined in the Seal Pit. Therefore, the discharge quality from the two outfalls is considered to be identical, but other waste streams enter outfall 002, thus the samples must be procured from 002's discharge pipe. The reporting may be recorded on one Discharge Monitoring Report (DMR), designated as Outfall 001 /002. Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 1/M | Estimate |
| pH | N/A | N/A | 6.0 S.U. | 9.0 S.U. | 1/M | Grab |
| Chlorine, Total Residual[(2)] | 0.022 mg/l | N/A | N/A | 0.032 mg/l | 2/M | Grab |
| Heat Rejection (Unit 3)[(3)] | N/A | N/A | N/A | $5.58 \times 10^8$ BTU/Hour | Continuous | Calculated |
| Intake Temperature(°C)[(5)] | NL | N/A | NL | NL | 1/D | IS |
| Temperature(°C)[(5)] | NL | N/A | NL | NL | 1/D | IS |
| Acute Toxicity – *C. dubia* ($TU_a$) [(4)] | N/A | N/A | N/A | NL | 1/YR | Grab |
| Chronic Toxicity – *P. promelas* ($TU_c$) [(4)] | N/A | N/A | N/A | NL | 1/YR | Grab |

*S.U.* = Standard Units. *MGD* = Million gallons per day. *1/D* = Once every day.
*NL* = No limit; monitor and report. *N/A* = Not applicable. *2/M* = Twice every month.
*IS* = Immersion Stabilization. *1/M* = Once every month.
*1/YR* = Once every year.

(1) = The average flow is 112.5 MGD.
(2) = While Chlorinating Unit Condensers. Please see Part I.B.1, Additional requirements
(3) = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.
(4) = Please see Part I.C., Toxic Management Program.
(5) = Please see Part I.D., Schedule of Compliance for Temperature Monitoring.

*Estimate:* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 2. Outfall 201 – Unit 5 Cooling Tower Blowdown

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 201 (Cooling Tower Blowdown – Unit 5), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 1/D - M | Estimate |
| pH | N/A | N/A | 6.0 S.U. | 9.0 S.U. | 1/D - W | Grab |
| Chlorine, Free Available[(2)] | N/A | 0.2 mg/l | N/A | 0.5 mg/l | 1/D – W | Grab |
| Total Chromium | 0.2 mg/l | N/A | N/A | 0.2 mg/l | 1/D - M | Grab |
| Total Zinc | 1.0 mg/l | N/A | N/A | 1.0 mg/l | 1/D – M | Grab |
| 126 Priority Pollutants [(3)] (Appendix A of 40 CFR 423) | Non-detectable | N/A | N/A | Non-detectable | 1/D – Y | Grab |

*NL* = No limit; monitor and report.
*MGD* = Million gallons per day.
*1/D – M* = Once per Month in which there is a discharge.
*S.U.* = Standard units.
*N/A* = Not applicable.
*1/D - W* = Once per week in which there is a discharge.
*1/D - Y* = Once per year in which there is a discharge.

(1) = The average flow is 3.1 MGD.
(2) = While chlorinating the Unit 5 cooling tower.
(3) = Please see Part I.E.8., for exclusion from sampling

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 3. Outfall 202 – Unit 6 Cooling Tower Blowdown

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 202 (Cooling Tower Blowdown – Unit 6), the effluent from the final treatment process. Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 1/D - M | Estimate |
| pH | N/A | N/A | 6.0 S.U. | 9.0 S.U. | 1/D - W | Grab |
| Chlorine, Free Available[(2)] | N/A | 0.2 mg/l | N/A | 0.5 mg/l | 1/D – W | Grab |
| Total Chromium | 0.2 mg/l | N/A | N/A | 0.2 mg/l | 1/D - M | Grab |
| Total Zinc | 1.0 mg/l | N/A | N/A | 1.0 mg/l | 1/D – M | Grab |
| 126 Priority Pollutants [(3)] (Appendix A of 40 CFR 423) | Non-detectable | N/A | N/A | Non-detectable | 1/D – Y | Grab |

*NL* = No limit; monitor and report.
*N/A* = Not applicable.
*MGD* = Million gallons per day.
*S.U.* = Standard units.
*1/D - M* = Once per Month in which there is a discharge.
*1/D - W* = Once per week in which there is a discharge.
*1/D – Y* = Once per year in which there is a discharge.

(1) = The average flow is 1.0 MGD.
(2) = While chlorinating the Unit 6 cooling tower.
(3) = Please see Part I.E.8., for exclusion from sampling

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 4. Outfall 003 – Unit 4 Non-contact Cooling Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 003 (Cooling Water - Unit 4). Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 1/M | Estimate |
| pH | N/A | N/A | 6.0 S.U. | 9.0 S.U. | 1/M | Grab |
| Chlorine, Total Residual[(2)] | 0.022 mg/l | N/A | N/A | 0.032 mg/l | 2/M | Grab |
| Heat Rejection (Unit 4)[(3)] | N/A | N/A | N/A | $1.14 \times 10^9$ BTU/Hour | Continuous | Calculated |
| Temperature(°C)[(5)] | NL | N/A | NL | NL | 1/W | IS |
| Dissolved Copper | NL | N/A | N/A | NL | 1/6M | Grab |
| Acute Toxicity – *C. dubia* ($TU_a$) [(4)] | N/A | N/A | N/A | NL | 1/Y | Grab |
| Chronic Toxicity – *P. promelas* ($TU_c$) [(4)] | N/A | N/A | N/A | NL | 1/Y | Grab |

*N/A* = Not applicable.
*NL* = No limit; monitor and report.
*MGD* = Million gallons per day.
*S.U.* = Standard Units
*IS* = Immersion Stabilization.
*2/M* = Twice every Month.
*1/W* = Once every week.
*1/M* = Once every month.
*1/Y* = Once every year.
*1/6M* = Once every six months.

(1) = The average flow is 120.6 MGD.
(2) = While Chlorinating the Unit 4 condenser. Please see Part I.B.1, Additional Requirements.
(3) = Heat Rejection is measured at the respective Condenser Units, prior to discharge to the Seal Basin.
(4) = Please see Part I.C., Toxic Management Program.
(5) = Please see Part I.D., Schedule of Compliance for Temperature Monitoring.

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 5. Outfall 004 – Low Volume Waste Settling Basin

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 004 (Low Volume Waste Settling Basin). Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD)[1] | NL | N/A | N/A | NL | 2/M | Estimate |
| pH | N/A | N/A | 6.0 S.U. | 9.0 S.U. | 2/M | Grab |
| Oil and Grease | 15 mg/l | N/A | N/A | 20 mg/l | 2/M | Grab |
| Nitrogen, Total (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| TKN (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Ammonia (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Nitrate+Nitrite (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Phosphorus, Total (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Heat Rejection (Unit 6)[2] | NL | NL | N/A | $1.9x10^8$ BTU/hr | 2/M | Calculated |
| Temperature (°C)[5] | NL | N/A | NL | NL | 1/W | IS |
| Total Suspended Solids | 30 mg/l | N/A | N/A | 100 | 2/M | Grab |
| Chlorine, Total Residual[3] | 0.022 mg/l | N/A | N/A | 0.032 mg/l | 1/W | Grab |
| Acute Toxicity – *P. promelas* ($TU_a$) [4] | N/A | N/A | N/A | NL | 1/YR | Grab |
| Acute Toxicity – *C. dubia* ($TU_a$) [4] | N/A | N/A | N/A | NL | 1/YR | Grab |
| Chronic Toxicity – *P. promelas* ($TU_c$) [4] | N/A | N/A | N/A | NL | 1/YR | Grab |
| Chronic Toxicity – *C. dubia* ($TU_c$) [4] | N/A | N/A | N/A | NL | 1/YR | Grab |

NL = No limit; monitor and report.
S.U. = Standard units.
*MGD* = Million gallons per day.
*N/A* = Not applicable.
*C* = Celsius
*IS* = Immersion and Stabilization
*2/M* = Twice every Month.
*1/3 M* = Once every Quarter
*1/W* = Once every Week
*1/M* = Once every Month.

[1] = The average flow is 1.3 MGD.
[2] = Heat Rejection is to be calculated for the effluent at Outfall 004.
[3] = While Chlorinating only
[4] = Please see Part I.C., Toxic Management Program.
[5] = Please see Part I.D., Schedule of Compliance for Temperature Monitoring.

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 6. Outfall 005 – Ash Pond E

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 005 (Ash Pond E), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 2/M | Estimate |
| pH | N/A | N/A | 6.0 S.U. | 9.0 S.U. | 2/M | Grab |
| Oil and Grease | 15 mg/l | N/A | N/A | 20 mg/l | 2/M | Grab |
| Nitrogen, Total (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| TKN (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Ammonia (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Nitrate+Nitrite (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Phosphorus, Total (mg/l) | NL | N/A | N/A | N/A | 1/3 M | Grab |
| Total Suspended Solids | 30 mg/l | N/A | N/A | 50 mg/l | 2/M | Grab |
| Acute Toxicity – *C. dubia* ($TU_a$) [(2)] | N/A | N/A | N/A | NL | 1/YR | Grab |
| Acute Toxicity – *P. promelas* ($TU_a$) [(2)] | N/A | N/A | N/A | NL | 1/YR | Grab |
| Chronic Toxicity – *C. dubia* ($TU_c$) [(2)] | N/A | N/A | N/A | NL | 1/YR | Grab |
| Chronic Toxicity – *P. promelas* ($TU_c$) [(2)] | N/A | N/A | N/A | NL | 1/YR | Grab |

NL = No limit; monitor and report.
*S.U.* = Standard units.
*MGD* = Million gallons per day.
*N/A* = Not applicable.
*2/M* = Twice every month.
*1/3 M* = Once every Quarter
*1/YR* = Once every Year.

[(1)] = The average flow is 2.0 MGD.
[(2)] = Please see Part I.C., Toxic Management Program.

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 7. Outfall 501 – Metals Cleaning Waste Basin

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permits effective date and lasting until the permits expiration date, the permittee is authorized to discharge from Outfall Number 501 (Metals Cleaning Waste Basin), the effluent from the final treatment process, unless otherwise specified. Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 1/D - M | Estimate |
| Oil and Grease | 15 mg/l | N/A | N/A | 20 mg/l | 1/D - M | Grab |
| Total Suspended Solids | 30 mg/l | N/A | N/A | 100 mg/l | 1/D - M | Grab |
| Total Iron | 1.0 mg/l | N/A | N/A | 1.0 mg/l | 1/D - M | Grab |
| Total Copper | 1.0 mg/l | N/A | N/A | 1.0 mg/l | 1/D - M | Grab |

*NL* = No limit; monitor and report. *MGD* = Million gallons per day. 1/D – M = Once per Month in which there is a discharge
*S.U.* = Standard Units. *N/A* = Not applicable.

(1) = The average flow is 2.0 MGD.

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 8. Outfall 502 – Oily Waste Pond

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permits effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Number 502 (Oily Waste Pond). Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 2/M | Estimate |
| Total Petroleum Hydrocarbons (TPH) | 30 mg/l | N/A | N/A | 60 mg/L | 2/M | Grab |

*NL* = No limit; monitor and report. *MGD* = Million gallons per day. *2/M* = Twice every month.
*N/A* = Not applicable.

[(1)] = The average flow is 0.3 MGD.

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.
*Grab :* An individual sample collected over a period of time not to exceed 15-minutes.

## A. Effluent Limitations and Monitoring Requirements

### 9. Outfalls 007 and 008 – Intake Screen Backwash Water

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permits effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from Outfall Numbers 007 and 008 (Intake Screen Backwash Water). Such discharges shall be limited and monitored by the permittee as specified below:

| PARAMETER | DISCHARGE LIMITATIONS | | | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Minimum | Maximum | Frequency | Sample Type |
| Flow (MGD) [(1)] | NL | N/A | N/A | NL | 1/3M* | Measured** |

*NL* = No limit; monitor and report. *MGD* = Million gallons per day. *N/A* = Not applicable. *1/3M* = Once every three months.

[(1)] = The average flow for 007 is 0.3 MGD. The average flow for 008 is 2.2 MGD.

*Estimate :* Reported Flow is to be based on the technical evaluation of the sources contributing to the discharge.

* The quarters shall be January1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31. The DMR shall be submitted to DEQ-NVRO on April 10, July 10, October 10, and January 10, respectively.

** In lieu of providing measured flow at Outfalls 007 and 008, the permittee may estimate flows and submit the following information with their April 10 DMR:

1) a description of the methodology used to estimate flow at each outfall where flow measurement equipment is not present;
2) documentation appropriate to the methodology utilized which provides information necessary to support the validity of the reported flow estimate. If actual measurements or observations are made, a description of typical sampling times, locations, and persons performing the measurements/observations shall also be provided; and
3) a description of the factors (e.g., batch discharges, intermittent operation, etc.) which cause flow at the outfall to fluctuate significantly from the estimate provided.

## A. Effluent Limitations and Monitoring Requirements

### 10. Groundwater Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

| Observation Wells | | | | | |
|---|---|---|---|---|---|
| Ash Pond D | Stratum D | ED-1, ED-3, ED-9R, ED-15, ED-24R, ED-32 | Ash Pond E | Stratum D | ES-1, ES-3a, ES-4 |

| PARAMETER | GROUNDWATER MONITORING | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|
| | Limitations | Units | Frequency | Sample Type |
| Static Water Level (mean sea level) | NL | Feet | Semiannually | Measurement |
| pH | NL | Standard Units | Semiannually | Grab |
| Specific Conductivity | NL | Umhos/cm | Semiannually | Grab |
| Hardness | NL | as $CaCO_3$, mg/l | Semiannually | Grab |
| Chlorides | NL | mg/l | Semiannually | Grab |
| Fluoride | NL | mg/l | Semiannually | Grab |
| Sodium | NL | mg/l | Semiannually | Grab |
| Potassium | NL | mg/l | Semiannually | Grab |
| Sulfate | NL | mg/l | Semiannually | Grab |
| Total Organic Carbon (TOC) | NL | mg/l | Semiannually | Grab |
| Temperature | NL | °C | Semiannually | Grab |
| Dissolved Arsenic | NL | mg/l | Semiannually | Grab |
| Dissolved Barium | NL | mg/l | Semiannually | Grab |
| Dissolved Cadmium | NL | mg/l | Semiannually | Grab |
| Dissolved Copper | NL | mg/l | Semiannually | Grab |
| Dissolved Iron | NL | mg/l | Semiannually | Grab |
| Dissolved Mercury | NL | mg/l | Semiannually | Grab |
| Dissolved Lead | NL | mg/l | Semiannually | Grab |
| Dissolved Nickel | NL | mg/l | Semiannually | Grab |
| Dissolved Manganese | NL | mg/l | Semiannually | Grab |
| Dissolved Selenium | NL | mg/l | Semiannually | Grab |
| Dissolved Silver | NL | mg/l | Semiannually | Grab |
| Dissolved Vanadium | NL | mg/l | Semiannually | Grab |
| Dissolved Zinc | NL | mg/l | Semiannually | Grab |
| Phenol | NL | mg/l | Semiannually | Grab |

*NL* = No Limit: monitor and report
*Grab* = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

## A. Effluent Limitations and Monitoring Requirements

### 11. Groundwater Monitoring Requirements

a. During the period beginning with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at Ash Pond D and Ash Pond E. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

| Observation Wells | | |
|---|---|---|
| Ash Pond D and E | Stratum B | ED-4, ED-5, ED-17 |
| | Stratum E | ED-31 |
| | Stratum F | ED-26, ED-33 |

| PARAMETER | GROUNDWATER MONITORING | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|
| | Limitations | Units | Frequency | Sample Type |
| Static Water Level (mean sea level) | NL | Feet | Annually | Measurement |
| pH | NL | Standard Units | Annually | Grab |
| Specific Conductivity | NL | Umhos/cm | Annually | Grab |
| Hardness | NL | as $CaCO_3$, mg/l | Annually | Grab |
| Chlorides | NL | mg/l | Annually | Grab |
| Fluoride | NL | mg/l | Annually | Grab |
| Sodium | NL | mg/l | Annually | Grab |
| Potassium | NL | mg/l | Annually | Grab |
| Sulfate | NL | mg/l | Annually | Grab |
| Total Organic Carbon (TOC) | NL | mg/l | Annually | Grab |
| Temperature | NL | °C | Annually | Grab |
| Dissolved Arsenic | NL | mg/l | Annually | Grab |
| Dissolved Barium | NL | mg/l | Annually | Grab |
| Dissolved Cadmium | NL | mg/l | Annually | Grab |
| Dissolved Copper | NL | mg/l | Annually | Grab |
| Dissolved Iron | NL | mg/l | Annually | Grab |
| Dissolved Mercury | NL | mg/l | Annually | Grab |
| Dissolved Lead | NL | mg/l | Annually | Grab |
| Dissolved Nickel | NL | mg/l | Annually | Grab |
| Dissolved Manganese | NL | mg/l | Annually | Grab |
| Dissolved Selenium | NL | mg/l | Annually | Grab |
| Dissolved Silver | NL | mg/l | Annually | Grab |
| Dissolved Vanadium | NL | mg/l | Annually | Grab |
| Dissolved Zinc | NL | mg/l | Annually | Grab |
| Phenol | NL | mg/l | Annually | Grab |

*NL* = No Limit: monitor and report
*Grab* = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

**A. Effluent Limitations and Monitoring Requirements**

**12. Groundwater Monitoring Requirements**

a. During the period with the permit's effective date and lasting until the permits expiration date, the permittee is authorized to manage pollutants at the Oily Waste Basin. The groundwater shall be monitored at the observation well by the permittee as specified below for the following observation wells:

| Observation Wells | |
|---|---|
| Oily Waste Pond | OWB-1, OWB-2, OWB-3, OWB-4, OWB-5 |

| PARAMETER | GROUNDWATER MONITORING | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|
| | Limitations | Units | Frequency | Sample Type |
| Static Water Level (mean sea level) | NL | Feet | Semiannually | Measurement |
| pH | NL | Standard Units | Semiannually | Grab |
| Specific Conductivity | NL | Umhos/cm | Semiannually | Grab |
| Hardness | NL | as $CaCO_3$, mg/l | Semiannually | Grab |
| Chlorides | NL | mg/l | Semiannually | Grab |
| Fluoride | NL | mg/l | Semiannually | Grab |
| Sodium | NL | mg/l | Semiannually | Grab |
| Potassium | NL | mg/l | Semiannually | Grab |
| Sulfate | NL | mg/l | Semiannually | Grab |
| Total Organic Carbon (TOC) | NL | mg/l | Semiannually | Grab |
| Temperature | NL | °C | Semiannually | Grab |
| Dissolved Arsenic | NL | mg/l | Semiannually | Grab |
| Dissolved Barium | NL | mg/l | Semiannually | Grab |
| Dissolved Cadmium | NL | mg/l | Semiannually | Grab |
| Dissolved Copper | NL | mg/l | Semiannually | Grab |
| Dissolved Iron | NL | mg/l | Semiannually | Grab |
| Dissolved Mercury | NL | mg/l | Semiannually | Grab |
| Dissolved Lead | NL | mg/l | Semiannually | Grab |
| Dissolved Nickel | NL | mg/l | Semiannually | Grab |
| Dissolved Manganese | NL | mg/l | Semiannually | Grab |
| Dissolved Selenium | NL | mg/l | Semiannually | Grab |
| Dissolved Silver | NL | mg/l | Semiannually | Grab |
| Dissolved Vanadium | NL | mg/l | Semiannually | Grab |
| Dissolved Zinc | NL | mg/l | Semiannually | Grab |
| Total Petroleum Hydrocarbons (TPH) | NL | mg/l | Semiannually | Grab |
| Benzene | NL | mg/l | Semiannually | Grab |
| Ethylbenzene | NL | mg/l | Semiannually | Grab |
| Toluene | NL | mg/l | Semiannually | Grab |
| Total Xylenes | NL | mg/l | Semiannually | Grab |
| Phenol | NL | mg/l | Semiannually | Grab |

*NL* = No Limit: monitor and report

*Grab* = An individual sample collected over a period of time not to exceed 15-minutes or time needed to collect proper sample amount.

**B. Additional Effluent Limitations, Monitoring Requirements, and Instructions**

1. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

   a. Neither free available nor total residual chlorine (TRC) may be discharged from Units 3, 4, 5 and 6 for more than two hours per day, unless the permittee demonstrates to the Department of Environmental Quality (DEQ) that discharge for more than two hours is required for macroinvertebrate control. If permitee is dechlorinating, than the two hours requirement is nullified.

   b. Simultaneous multi-unit chlorination is permitted.

2. Quantification Levels

   a. The maximum quantification levels (QLs) shall be as follows:

| Characteristic | Quantification Level |
|---|---|
| Chlorine | 0.10 mg/l |
| Copper | 50 µg/l |
| Zinc | 50 µg/l |

   b. The permittee may use any approved method which has a QL equal to or lower than the QL listed in B.2.a. above. Except as specified in B.2.d. below, the QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method.

   c. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained.

3. Compliance Reporting Under Part I.A.

   a. Monthly Average – Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I. A shall be determined as follows: All concentration data below the QL listed above shall be treated as zero. All concentration data equal to or above the QL listed in a. above shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL then the average shall be reported as <QL. If reporting for quantity is required on the DMR and the calculated concentration is <QL then report <QL for the quantity, otherwise use the calculated concentration to determine the monthly average quantity.

   b. Daily Maximum - Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in Part I.A. shall be determined as follows: All concentration data below the QL listed above shall be treated as zero. All concentration data equal to or above the QL listed in a. above shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL then the average shall be reported as <QL. If reporting for quantity is required on the DMR and the calculated concentration is <QL then report <QL for the quantity otherwise use the calculated concentration to determine the quantity.

c. Any single datum required shall be reported as <QL if it is less than the QL in a. above. Otherwise the numerical value shall be reported.

d. The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used (i.e., 5 always rounding up or to the nearest even number) by the permittee, the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

## C. Toxic Management Program

1. Biological Monitoring

a. In accordance with the schedule in Part I.C.2. below, the permittee shall conduct the following testing:
1) Outfall 001/002 shall be annual acute and chronic toxicity testing.
2) Outfall 003 shall be annual acute and chronic toxicity testing.
3) Outfall 004 and 005 shall be annual acute and chronic toxicity testing.

b. The permittee shall collect the following toxicity testing samples as:
1) Grab samples from Outfall 001/002, 003, 004, and 005. Outfall 001/002 will be collected in the 002 outfall pipe below any internal waste stream entering it.

c. The permittee shall conduct the toxicity test with the following organisms and procedures:

1) The permittee shall conduct acute toxicity test on these outfalls Outfalls 001/002 and 003 using *Ceriodaphnia dubia* and chronic toxicity tests using *Pimephales promelas*.
2) The permittee shall conduct acute and chronic toxicity test on this outfall 004 and 005 using both *Pimephales promelas* and *Ceriodaphnia dubia.*

The acute multi-dilution No Observed Adverse Effect Concentration (NOAEC) tests to use are:
*Ceriodaphnia dubia*: 48-Hour Static test; and
*Pimephales promelas*: 48-Hour Static test.

These acute tests are to be conducted using five (5) geometric dilutions of effluent with a minimum of four (4) replicates, with five (5) organisms in each. The NOAEC, as determined by hypotheses testing shall be converted to Acute Toxicity Units ($TU_a$), where $TU_a = 100/NOAEC$, and reported on the DMR. The $LC_{50}$ shall also be determined and noted on the submitted report. Tests in which control survival is less than 90% are not acceptable.

The chronic tests to use are:
*Ceriodaphnia dubia:* Chronic 3-Brood Static Renewal Survival and Reproduction Test, and
*Pimephales promelas*: Chronic 7-Day Static Renewal Survival and Growth Test.

These chronic tests shall be conducted in such a manner and at sufficient dilutions (i.e., minimum of five (5) dilutions, geometrically derived) to determine the No Observed Effect Concentration (NOEC) for survival and reproduction or growth. For Outfall 001/002, 003, and 005 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 35% equivalent to a Chronic Toxic Unit ($TU_c$) of 2.85. For Outfall 004 the chronic test dilutions shall be able to determine compliance with a chronic NOEC endpoint of 17% equivalent to a Chronic Toxic Unit ($TU_c$) of 5.88. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable and a retest will have to be performed. Express the test NOEC as Chronic Toxic Units ($TU_c$) for DMR reporting where $TU_c = 100/NOEC$. Report the $LC_{50}$ at 48 hours and the $IC_{25}$ with the NOEC's in the test report.

Any retest of a non-acceptable test must be performed during the same time period as the unacceptable test, or within 30 days of receiving the results of the unacceptable test if less than 30 days remain in the test period on the day the results are received by the permittee. Effluent samples shall not be dechlorinated prior to use in toxicity test.

d. The permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity.

e. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR Part 136.3.

f. Should the results of any test exceed the endpoint cited above, the permittee must conduct a retest of the effluent within 30 days of receiving the test results. If an evaluation of the data indicates that a limit is needed, the permit may be modified to include a WET limit and a schedule of compliance.

g. Use of test methods, protocols, and alternative species other than specified in Part I.C.1. above shall be approved by DEQ-NVRO prior to initiation of testing.

2. Reporting Schedule

The permittee shall monitor during the month specified and report the results on the DMR and supply a copy of the toxicity test report specified in this Toxics Management Program in accordance with the following schedule:

| ***Period*** | ***Sampling Period*** | ***DMR/Report Submission Date*** |
|---|---|---|
| Annual 1 | June to August 2008 | September 2008 |
| Annual 2 | June to August 2009 | September 2009 |
| Annual 3 | June to August 2010 | September 2010 |
| Annual 4 | June to August 2011 | September 2011 |
| Annual 5 | June to August 2012 | September 2012 |

**D. Schedule of Compliance – Temperature Monitoring for Outfalls 001/002, 003 and 004**

1. The permittee shall begin monitoring for Temperature as specified In Part I.A. for Outfalls 001/002 (Intake and effluent temperature), 003 (effluent temperature), and 004 (effluent temperature) within one year of the reissuance date of the permit.

2. The permittee shall submit to the Department of Environmental Quality, Northern Virginia Regional Office, a report of how the monitoring at each of the outfalls shall be accomplished. This report may be included as part of the Thermal Mixing Zone Study that is required in Part I.E.9. of this permit.

3. During the compliance period, the permittee must (1) continue to operate the facility in a manner that will minimize or avoid degradation of the effluent from current operating levels and (2) notify DEQ prior to making any substantial process control modifications that might degrade the quality of the effluent.

**E. Other Requirements**

1. Operation and Maintenance Manual Requirement
Within 180 days of the reissuance date of this permit, the permittee shall submit for approval an a revised Operations and Maintenance (O&M) Manual or a statement confirming the accuracy and completeness of the current O&M Manual to the DEQ, Northern Virginia Regional Office.

The permittee shall maintain a current and approved O&M Manual for the facility. This manual shall detail the practices and procedures, which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items:

a. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
b. Techniques to be employed in the collection, preservation and analysis of effluent samples;
c. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized that will prevent these materials from reaching state waters; and
d. A plan for the management and/or disposal of waste solids, residues, /Residue/Sludge Management and Disposal Plan.
e. Discussion of Best Management Practices.

The permittee shall operate the facility in accordance with the approved O & M Manual. Non-compliance with the O&M Manual shall be deemed a violation of the permit. Future changes to the practices and procedures followed by the permittee must be addressed by the submittal of a revised O&M Manual to DEQ for approval within 90 days of the changes.

2. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   1) One hundred micrograms per liter;
   2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
   3) Five times the maximum concentration value reported for that pollutant in the permit application; or
   4) The level established by the Board.
b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
   1) Five hundred micrograms per liter;
   2) One milligram per liter for antimony;
   3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
   4) The level established by the Board.

3. Materials Handling/Storage

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

4. Prohibition of Chemical Additives

The permittee shall notify DEQ-NVRO, in writing at least thirty (30) days prior to the use of chemical additives in the non-contact cooling water. The written notice shall contain the following:

a. Names of the proposed chemical additives to be used and corresponding copies of their Material Safety Data Sheets (MSDS).

b. Proposed schedule of chemical additive use; and
c. Description of any proposed wastewater treatment and/or retention to be provided during the use of chemical additives.

Should the use of chemical additives significantly alter the characteristics of the non-contact cooling water discharge or if the use of chemical additives becomes persistent or continuous, this permit may be modified or alternatively, revoked and reissued to include appropriate limitations or conditions.

5. Polychlorinated Biphenyl

There shall be no discharge of Polychlorinated Biphenyl (PCBs) compounds from this source in amounts equal to or greater than detectable by EPA test methods specified in 40 CFR Part 136, Guidelines for Establishing Test Procedures for the Analysis of Pollutants.

6. Water Quality Criteria Reopener

Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

7. Water Quality Criteria Monitoring

The permittee shall monitor the effluent at Outfall 004 and 005 for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type and frequency. Monitoring shall be performed annually from the reissuance date. Using Attachment A as the reporting form, the data shall be submitted no later than two months after sampling occurs. Monitoring and analysis shall be conducted in accordance with 40 CFR Part 136 or alternative EPA approved method. Alternative EPA approved methods other than those specified in Attachment A may be used with prior notification to and approval from DEQ-NVRO. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

8. 126 Priority Pollutants for Outfalls 201 and 202

Any and all 126 priority pollutants listed in Appendix A to 40 CFR 423, contained in the chemicals added for cooling tower maintenance, shall be non-detectable in the blowdown discharge water. Sampling these pollutants (except total chromium and total zinc) from the discharge point shall be conducted annually when there is a discharge.

This monitoring requirement may be waived if the permittee submits engineering calculations which demonstrate that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR Part 136.

The permittee shall notify DEQ-NVRO of any process change in the cooling tower, which may affect the quality of the associated discharge water.

9. Thermal Mixing Zone Monitoring

Within one year of the reissuance date, the permittee shall submit a proposal to study and redefine the thermal mixing zone. The proposal for the study shall be submitted to the Northern Virginia Regional Office of DEQ for review and approval.

Within four years of the reissuance date, the permittee shall submit the results of the thermal mixing zone including all the supporting documentation.

Until the updated study is reviewed and approved, monitoring shall continue using the current approved mixing zone. The current mixing zone is defined as the part of Quantico Creek from the established border between the Commonwealth of Virginia and the State of Maryland, upstream approximately 5.2 kilometers

(based on centerline measurement; bounded vertically by the extreme high water mark and the bottom of the creek, including all tidal marshlands, tidal mud flats, coves, inlets, and embayment within the defined area).

Monitoring of the approved thermal mixing zone shall take place twice a year during the months of July and February. The monitoring results shall be presented as a temperature plot with 3 degree centigrade isotherms and will be taken as near to full plant operating conditions as reasonably possible. The results of the July monitoring shall be submitted on or before October 31 of each year. The results of the February monitoring shall be submitted on or before May 31 of each year. The permittee shall comply with the State Water Quality Criteria outside of the approved mixing zone.

10. Debris Collection

Wastes such as solids, sludges, or other pollutants removed from or resulting from treatment or control of wastewaters, or facility operations, including all debris collected on the intake trash racks, shall be disposed of in a manner to prevent any removed substances or runoff from such substances from entering or from being placed in a location where they may enter the waters of the State.

11. Solids in Ash Pond D

a. Ash Pond D may be used as a repository for dredge spoil material and residuals removed from facilities, areas, and systems related to operation and maintenance of Possum Point Power Station. These materials and residuals include :
   1) Solids from VPDES treatment ponds and storm water management facilities;
   2) Solids from old/closed VPDES treatment ponds (Ash Pond A, B and C).
   3) Solids from station floor drains, lift stations, and sumps;
   4) Water treatment plant filter cake and cooling tower basin sludge;
   5) Soil and fines from station beautification and land restoration projects, including the coal pile area, deicing grit, abrasives, and inert cleanup debris such as surplus soil, rock, and gravel;
   6) Sand/silt/sediment in the Potomac River and Quantico Creek within and adjacent to cooling water intake structures, outfall structures, oil barge berths, shoreline revetments, boat ramp, transportation structures, and navigation-related channels and structures.

b. Ash Pond D may be used as a repository for dredge spoil material that is not related to operations at Possum Point Power Station provided the material originated from the Potomac River Basin meeting the definition of state waters in Virginia. The following guideline must be followed:

   1) Dominion shall provide written notice to the Department of Environmental Quality-Northern Virginia Regional Office (DEQ-NVRO) at least 30 days prior to the placement of any dredge spoil material in Ash Pond D. This notice shall include as a minimum the following information:

      a) Sampling tests and laboratory results (See Part I.E.11.c.),
      b) Copies of all permits or regulatory authorizations required for the project,
      c) Project schedule dates,
      d) Method of placement,
      e) Original location of material,
      f) Type and volume of material,
      g) Name, address, and telephone number of dredging contractor (for placement of dredge spoil material) or station contact (for placement of station residuals).

   2) Specific approval by the DEQ-NVRO is not required for a placement project but the DEQ-NVRO shall have the right to request additional information or halt any noticed activity. If the

placement project is not halted by the DEQ-NVRO within 30 days of receipt of the above notice, the project is deemed authorized.

c. Sampling Requirements.
   1) A "sample" is defined as a Core Dredge sample, which will be a composite of dredge material from the river, stream or lake bottom to the depth of the intended dredge.
   2) Number of Samples taken
      a) >300,000 Cubic Yards of Material
      For every 100,000 cubic yards of material a representative samples shall be collected. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
      b) <300,000 Cubic Yards, but >50,000 Cubic Yards of Material
      There shall be three representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
      c) <50,000 Cubic Yards, but >1,000 Cubic Yards of Material
      There shall be two representative samples of dredge area. These samples shall best represent the materials being placed in Ash Pond D from the dredge area.
      d) <1,000 Cubic Yards of Material
      No sampling requirement shall apply to projects involving the placement of material less than 1,000 cubic yards with approval from Dominion (Virginia Power).

   3) All parameters limited in Attachment B shall be sampled. The permittee shall use Attachment B has a reporting form which will be submitted to DEQ-NVRO at least 30 days prior to placement in Ash Pond D. If the measured constituents in the sample exceed any respective threshold levels listed in Attachment B, the material shall not be placed in Ash Pond D.
   4) Materials and residuals related to routine station operations and dredge materials identified in Part I.D. a. shall be tested prior to initial placement under this protocol and if station processes have not materially changed, further testing is not required.
   5) The above sampling requirements for any placement activity may be waived in the event of declared public emergency conditions or by consent of the DEQ-NVRO.

d. The placement of any material in Ash Pond D shall not be incompatible with the Ash Pond D liner system or cause a violation of the VPDES permit requirements applicable to Outfall 005 at Ash Pond E.

e. Dominion shall retain records relating to the placement event for minimum of three years and comply with the requirements of Part II.B.2 of the subject permit.

f. Dredging must be preformed in accordance with all Federal and Virginia laws and regulations.

12. 316(b) of the Clean Water Act
As required by §316(b) of the Clean Water Act, the location, design, construction and capacity of the cooling water intake structures for the permitted facility shall reflect the best technology available (BTA) for minimizing adverse environmental impact. Within one year of the effective date of this permit the permittee shall submit biological data collected consistent with that described in the February, 2005 Proposal for Information Collection. This permit may be reopened to address compliance with Clean Water Act §316(b) through requirements including but not limited to those specified in EPA regulations in 40 CFR Part 125 Subpart J when finalized.

13. TMDL Reopener
This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocations, limits or conditions on the facility that are not consistent with the permit requirements.

## F. Groundwater Special Conditions

1. Groundwater Monitoring Requirements
   a. As identified in Part I.A.10-12, of this permit, groundwater monitoring is required from observation wells adjacent to Ash Pond D & E and the Oily Waste Pond as stated in the Groundwater Monitoring Plan approved by DEQ-NVRO.
   b. The permittee shall monitor the groundwater in accordance with the approved Groundwater Monitoring Plan. Non-compliance with the Groundwater Monitoring Plan shall be deemed a violation of the permit. Future changes to the practices and procedures followed by the permittee must be addressed by the submittal of a revised Groundwater Monitoring Plan to DEQ for approval within 90 days of the changes.
   c. Metals samples shall be filtered in the field.

2. Groundwater Reporting
   a. The Groundwater Annual Report will include the annual and all semiannual sampling results for that year.
   b. The Groundwater Annual Report shall include a review of the groundwater quality on the basis of background quality, Water Quality Standards, and statistical deviation thereof, as applicable with the Anti-degradation Policy for Groundwater.
   c. This annual report shall be submitted to DEQ-NVRO by April 30$^{th}$ of each year.

3. Site Characterization Report
   a. Oily Waste Pond
      1) If the ground water monitoring data shows contamination from the oily waste pond, as reported in the annual reports, then a Site Characterization Report may be required by DEQ-NVRO.
      2) The permittee shall submit the Site Characterization Report no later than three years from the following the notice from DEQ-NVRO.
      3) The report shall include, at a minimum, an assessment of the following:
         a) The spatial extent and severity of the contamination depicted by isoconcentration maps.
         b) The cause of the contamination.
         c) Identify both human health and environmental receptors
         d) Assess risk to each receptor.
         e) Analysis of remediation alternatives.

4. Corrective Action Plan
   a. Following a review and approval of Site Characterization Report, a Corrective Action Plan may be required by DEQ-NVRO. This Corrective Action Plan will be due within 180 days upon notification by DEQ-NVRO.
   b. The permittee shall put into practice the Corrective Action Plan within 180 days after it has been approved by DEQ-NVRO.

## G. Storm Water Management

1. General Storm Water Pollution Prevention Plan Requirements

The previous permit required a storm water pollution prevention plan. Any necessary revisions to storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices that are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Permittee must implement the provisions of the storm water pollution prevention plan as a condition of this permit.

The storm water pollution prevention plan requirements of this permit may be fulfilled by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act or best management practices (BMP) programs otherwise required for the facility provided that the incorporated plan meets or exceeds the plan requirements of Part I.G.1.d.. If an erosion and sediment control plan is being incorporated by reference, it shall have been approved by the locality in which the activity is to occur or by another appropriate plan approving authority authorized under the Virginia Erosion and Sediment Control Regulation 4 VAC 50-30-10 et seq. All plans incorporated by reference into the storm water pollution prevention plan become enforceable under this permit.

a. **Deadlines for Plan Preparation and Compliance.**
The storm water pollution prevention plan which was previously prepared and implemented shall be complied with, and continually updated as needed in accordance with the following Part I.G.1. sections.

b. **Signature and Plan Review.**

1) *Signature/Location.* The plan shall be signed in accordance with Part II, K., and be retained onsite at the facility that generates the storm water discharge in accordance with Part II, B.2. For inactive facilities, the plan may be kept at the nearest office of the permittee.

2) *Availability.* The permittee shall make the storm water pollution prevention plan, annual site compliance inspection report, or other information available to DEQ-NVRO upon request.

3) *Required Modifications.* The Director, or authorized representative, may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this permit. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan requires modifications in order to meet the minimum requirements of this permit. Within 60-days of such notification from the Director, (or as otherwise provided by the Director), or authorized representative, the permittee shall make the required changes to the plan and shall submit to the Director a written certification that the requested changes have been made.

c. **Keeping Plans Current.**
The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, that has a significant effect on the potential for the discharge of pollutants to surface waters or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part I.G.1.d. of this permit, those pollutants identified in Part I.G.4., or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. New owners shall review

the existing plan and make appropriate changes. Amendments to the plan may be reviewed by the DEQ-NVRO in the same manner as Part I.G.1.b.

d. **Contents of the Plan.**
The contents of the pollution prevention plan shall comply with the requirements listed below and those in Part I.G.3 and 4. These requirements are cumulative. The plan shall include, at a minimum, the following items.

1) *Pollution Prevention Team.* The plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.

2) *Description of Potential Pollutant Sources.* The plan shall provide a description of potential sources that may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. The plan shall identify all activities and significant materials that may potentially be significant pollutant sources. The plan shall include, at a minimum:

a) *Drainage.* A site map indicating an outline of the portions of the drainage area of each storm water outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Part I.G.1.d.2.c) have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes and waste waters, locations used for the treatment, filtration, or storage of water supplies, liquid storage tanks, processing areas, and storage areas. The map must indicate the outfall locations and the types of discharges contained in the drainage areas of the outfalls; and for each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants that are likely to be present in storm water discharges associated with industrial activity. Factors to consider include the toxicity of chemical; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified;

b) *Inventory of Exposed Materials.* An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of 3-years prior to the date of submission of an application to be covered under this permit and the present; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of 3-years prior to the date of the submission of an application to be covered under this permit and the present; the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives;

c) *Spills and Leaks.* A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility within the 3-year period immediately prior to the date of submission of an application to be covered under this permit. Such list shall be updated as appropriate during the term of the permit;

d) *Sampling Data.* A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit; and

e) *Risk Identification and Summary of Potential Pollutant Sources.* A narrative description of the potential pollutant sources from the following activities: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and onsite waste disposal practices, and wastewater treatment activities to include sludge drying, storage, application or disposal activities. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g., biochemical oxygen demand, total suspended solids, etc.) of concern shall be identified.

3) *Measures and Controls.* The facility covered by this permit shall develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

*a)* *Good Housekeeping*. Good housekeeping requires the clean and orderly maintenance of areas that may contribute pollutants to storm water discharges. The plan shall describe procedures performed to minimize contact of materials with storm water runoff. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, material handling areas, and loading/unloading areas.

(1) *Fugitive Dust Emissions.* The plan must describe measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize offsite tracking of coal dust. To prevent offsite tracking the facility may consider specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) *Delivery Vehicles.* The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee should consider the following:
   i. Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and
   ii. Develop procedures to deal with leakage or spillage from vehicles or containers, and ensure that proper protective measures are available for personnel and environment.

(3) *Fuel Oil Unloading Areas.* The plan must describe measures that prevent or minimize contamination of storm water runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:
   i. Use containment curbs in unloading areas;

ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up; and
iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath fuel oil connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors).

(4) *Chemical Loading/Unloading Areas.* The plan must describe measures that prevent or minimize the contamination of storm water runoff from chemical loading/unloading areas. Where practicable, chemical loading/unloading areas should be covered, and chemicals should be stored indoors. At a minimum the permittee must consider using the following measures or an equivalent:
i. Use containment curbs at chemical loading/unloading areas to contain spills; and
ii. During deliveries station personnel familiar with spill prevention and response procedures must be present to ensure that any leaks or spills are immediately contained and cleaned up.

(5) *Miscellaneous Loading/Unloading Areas.* The plan must describe measures that prevent or minimizes the contamination of storm water runoff from loading and unloading areas. The plan may consider covering the loading area, minimizing storm water runon to the loading area by grading, berming, or curbing the area around the loading area to direct storm water away from the area, or locate the loading/unloading equipment and vehicles so that leaks can be contained in existing containment and flow diversion systems.

(6) *Liquid Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from above ground liquid storage tanks. At a minimum the permittee must consider employing the following measures or an equivalent:
i. Use protective guards around tanks;
ii. Use containment curbs;
iii. Use spill and overflow protection (drip pans, drip diapers, and/or other containment devices shall be placed beneath chemical connectors to contain any spillage that may occur during deliveries or due to leaks at such connectors); and
iv. Use dry cleanup methods.

(7) *Large Bulk Fuel Storage Tanks.* The plan must describe measures that prevent or minimize contamination of storm water runoff from liquid storage tanks. At a minimum the permittee must consider employing the following measures, or an equivalent:
i. Comply with applicable State and Federal laws, including Spill Prevention Control and Countermeasures (SPCC); and
ii. Containment berms.

(8) The plan must describe measures to reduce the potential for an oil spill, or a chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all above ground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) *Oil Bearing Equipment in Switchyards.* The plan must describe measures to reduce the potential for storm water contamination from oil bearing equipment in switchyard areas. The permittee may consider level grades and gravel surfaces to retard flows and limit the spread of spills; collection of storm water runoff in perimeter ditches.

(10) *Residue Hauling Vehicles.* All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the body or container. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) *Ash Loading Areas.* Plant procedures shall be established to reduce and/or control the tracking of ash or residue from ash loading areas for example, where practicable, requirements to clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water.

(12) *Areas Adjacent to Disposal Ponds or Landfills*. The plan must describe measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:
   i. Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
   ii. Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) *Landfills, Scrapyards, Surface Impoundments, Open Dumps, and General Refuse Sites.* The plan must address landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) *Maintenance Activities*. For vehicle maintenance activities performed on the plant site, the plan must describe measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle and equipment maintenance. The permittee shall consider performing all maintenance activities indoors, using drip pans, maintaining an organized inventory of materials used in the shop, draining all parts of fluids prior to disposal, prohibiting wet clean up practices where the practices would result in the discharge of pollutants to storm water drainage systems, using dry cleanup methods, collecting the storm water runoff from the maintenance area and providing treatment or recycling, minimizing runon/runoff of storm water areas or other equivalent measures.

(15) *Material Storage Areas.* The plan must describe measures that prevent or minimize contamination of storm water from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee may consider flat yard grades, runoff collection in graded swales or ditches, erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins), covering lay down areas, storing the materials indoors, covering the material with a temporary covering made of polyethylene, polyurethane, polypropylene, or hypalon. Storm water runon may be minimized by constructing an enclosure or building a berm around the area.

b) *Preventive Maintenance.* A preventive maintenance program shall involve: timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins); inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures which could result in discharges

of pollutants to surface waters; and appropriate maintenance of such equipment and systems.

c) *Spill Prevention and Response Procedures.* Areas where potential spills that can contribute pollutants to storm water discharges can occur, and their accompanying drainage points, shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.

d) *Inspections.* Facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall be identified to inspect designated equipment and areas of the facility. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.

e) *Employee Training.* Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The pollution prevention plan shall identify periodic dates for such training.

f) *Recordkeeping and Internal Reporting Procedures.* A description of incidents (such as spills, or other discharges), along with other information describing the quality and quantity of storm water discharges shall be included in the plan. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.

g) *Sediment and Erosion Control.* The plan shall identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

h) *Management of Runoff.* The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those that control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide that measures that the permittee determines to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices; reuse of collected storm water (such as for a process or as an irrigation source); inlet controls (such as oil/water separators); snow management activities; infiltration devices and wet detention/retention devices; or other equivalent measures.

4) *Comprehensive Site Compliance Evaluation.* Personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall conduct site compliance

evaluations at appropriate intervals specified in the plan, but in no case less than once a year. Such evaluations shall include the following:

a) Areas contributing to a storm water discharge associated with industrial activity such as material storage, handling, and disposal activities shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made;

b) Based on the results of the evaluation, the description of potential pollutant sources identified in the plan in accordance with Part I.G.1.d.(2) and pollution prevention measures and controls identified in the plan in accordance with Part I.G.1.d.(3) shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than 12 weeks after the evaluation;

c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with Part I.G.1.d.4(b) shall be made and retained as part of the storm water pollution prevention plan for at least 3-years from the date of the evaluation. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with Part II.K.; and

d) Where compliance evaluation schedules overlap with inspections required under Part I.G.1.d.3(d), the compliance evaluation may be conducted in place of one such inspection.

2. General Storm Water Conditions

a. **Quarterly Visual Examination of Storm Water Quality.** Unless another more frequent schedule is established elsewhere within this permit, the permittee shall perform and document a visual examination of a storm water discharge associated with industrial activity from each of the three representative outfalls. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

1) Examination shall be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. The examination shall document observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on samples. All such samples shall e collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted.

Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

2) Visual examination reports must be maintained onsite with the pollution prevention plan. The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snowmelt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settle solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution) and probable sources of any observed storm water contamination.

3) When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfall(s) provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (i.e., low (under 40 percent), medium (40-65 percent), or high (above 65 percent) shall be provided in the plan.

4) When the permittee is unable to conduct the visual examination due to adverse climatic conditions, the permittee must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examinations. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

b. **Prohibition of Non-storm Water Discharges.** Except as provided in this paragraph or elsewhere in this permit, all storm water discharges covered by this permit shall be composed entirely of storm water. The following non-storm water discharges are authorized by this permit provided the non-storm water component of the discharge is in compliance with this permit: discharges from fire fighting activities; fire hydrant flushings; potable water sources including waterline flushings; uncontaminated compressor condensate; irrigation drainage; lawn watering; routine external building wash down that does not use detergents or other compounds; pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated springs; uncontaminated ground water; foundation or footing drains where flows are not contaminated with process materials such as solvents; incidental windblown mist from cooling towers; and demineralized water from storage tanks.

All other non-storm water discharges must be addressed within and in compliance with this VPDES permit.

c. **Releases of Hazardous Substances or Oil in Excess of Reportable Quantities.** The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable storm water pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110 (1998), 40 CFR Part 117 (1998) or 40 CFR Part 302 (1998) occurs during a 24-hour period, the permittee is required to notify the DEQ-NVRO in accordance with the requirements of Part II, G. of this permit as soon as he or she has knowledge of the discharge. In addition, the storm water pollution prevention plan required by this permit must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate. This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 110 (1998), 40 CFR Part 117 (1998), and 40 CFR Part 302 (1998) or §62.1-44.34:19 of the Code of Virginia.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

## A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

## B. Records

1. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;
   b. The individual(s) who performed the sampling or measurements;
   c. The date(s) and time(s) analyses were performed;
   d. The individual(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of such analyses.

2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

## C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

   Department of Environmental Quality - Northern Regional Office (DEQ-NRO)
   13901 Crown Court
   Woodbridge, VA 22193

   Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

2. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.

3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

**D. Duty to Provide Information.**

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from this discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

**E. Compliance Schedule Reports**

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

**F. Unauthorized Discharges**

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

**G. Reports of Unauthorized Discharges.**

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II.F.; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II.F., shall notify the Department and the Maryland Department of the Environment (MDE) of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department and MDE, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department and MDE under the immediate reporting requirements of other regulations are exempted from this requirement.

**H. Reports of Unusual or Extraordinary Discharges.**

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department and MDE by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II.I.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

**I. Reports of Noncompliance**

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
   a. Any unanticipated bypass; and
   b. Any upset which causes a discharge to surface waters.

2. A written report shall be submitted within 5 days and shall contain:
   a. A description of the noncompliance and its cause;
   b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
   c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

   The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II, I.1.or I.2., in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II, G., H. and I. may be made to the Department's Northern Virginia Regional Office at (703) 583-3800 (voice) or (703) 583-3841 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24-hour telephone service at 1-800-468-8892.

The Maryland Department of the Environment shall be contacted by telephone at (410) 537-3510 during work hours or at (866) 633-4686 during evenings, weekends, and holidays. Written reports to the Maryland Department of the Environment should be sent to: WMA - Compliance Program Maryland Department of the Environment, 1800 Washington Boulevard, STE-425,Baltimore, MD 21230-1708.

**J. Notice of Planned Changes.**

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

      1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
      2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

**K. Signatory Requirements.**

1. All permit applications shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
      1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or

      2) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes:

      1) The chief executive officer of the agency, or
      2) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II.K.1., or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described in Part II.K.1.;

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

   c. The written authorization is submitted to the Department.

3. Changes to authorization. If an authorization under Part II.K.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2. shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Parts II, K.1. or K.2. shall make the following certification:

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**L. Duty to Comply.**

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

**M. Duty to Reapply.**

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

**N. Effect of a Permit.**

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

**O. State Law.**

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U.), and "upset" (Part II.V.) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

**P. Oil and Hazardous Substance Liability.**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

**Q. Proper Operation and Maintenance.**

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

**R. Disposal of solids or sludges.**

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

**S. Duty to Mitigate.**

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

**T. Need to Halt or Reduce Activity not a Defense.**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**U. Bypass.**

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II, U.2. and U.3.

2. Notice
   a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
   b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass.
   a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
      1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      3) The permittee submitted notices as required under Part II.U.2.

   b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3.a.

**V. Upset.**

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.2. are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

   a. An upset occurred and that the permittee can identify the cause(s) of the upset;
   b. The permitted facility was at the time being properly operated;
   c. The permittee submitted notice of the upset as required in Part II.I.; and
   d. The permittee complied with any remedial measures required under Part II.S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. **Inspection and Entry**

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

**X. Permit Actions.**

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**Y. Transfer of permits**

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II.Y.2., a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

2. As an alternative to transfers under Part II.Y.1., this permit may be automatically transferred to a new permittee if:
   a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
   b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
   c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

**Z. Severability**

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

# WATER QUALITY MONITORING
# ATTACHMENT A, PAGE 1 of 6

**Facility Name: Virginia Power - Possum Point** **VPDES Permit: VA0002071**
**Outfall 004**

| CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (µg/L) | Reporting Result [1] (µg/L) | Sample Type[2] | Sample Frequency[3] |
|---|---|---|---|---|---|---|
| **DISSOLVED METALS** | | | | | | |
| 7440-36-0 | Antimony | [4] | | | G | 1/YR |
| 7440-38-2 | Arsenic | [4] | | | G | 1/YR |
| 7440-43-9 | Cadmium | [4] | | | G | 1/YR |
| 16065-83-1 | Chromium III | [4] | | | G | 1/YR |
| 18540-29-9 | Chromium VI | [4] | | | G | 1/YR |
| 7440-50-8 | Copper | [4] | | | G | 1/YR |
| 7439-92-1 | Lead | [4] | | | G | 1/YR |
| 7439-97-6 | Mercury | [4] | | | G | 1/YR |
| 7440-02-0 | Nickel | [4] | | | G | 1/YR |
| 7782-49-2 | Selenium | [4] | | | G | 1/YR |
| 7440-22-4 | Silver | [4] | | | G | 1/YR |
| 7440-28-0 | Thallium | [4] | | | G | 1/YR |
| 7440-66-6 | Zinc | [4] | | | G | 1/YR |
| **PESTICIDES/PCBs** | | | | | | |
| 309-00-2 | Aldrin | 608 | 0.05 | | G or C | 1/YR |
| 57-74-9 | Chlordane | 608 | 0.2 | | G or C | 1/YR |
| 2921-88-2 | Chlorpyrifos (Dursban) | 622 | [6] | | G or C | 1/YR |
| 72-54-8 | DDD | 608 | 0.1 | | G or C | 1/YR |
| 72-55-9 | DDE | 608 | 0.1 | | G or C | 1/YR |
| 50-29-3 | DDT | 608 | 0.1 | | G or C | 1/YR |
| 8065-48-3 | Demeton | [5] | [6] | | G or C | 1/YR |
| 60-57-1 | Dieldrin | 608 | 0.1 | | G or C | 1/YR |
| 959-98-8 | Alpha-Endosulfan | 608 | 0.1 | | G or C | 1/YR |
| 33213-65-9 | Beta-Endosulfan | 608 | 0.1 | | G or C | 1/YR |
| 1031-07-8 | Endosulfan Sulfate | 608 | 0.1 | | G or C | 1/YR |
| 72-20-8 | Endrin | 608 | 0.1 | | G or C | 1/YR |
| 7421-93-4 | Endrin Aldehyde | 608 | 0.1 | | G or C | 1/YR |
| 86-50-0 | Guthion | 622 | [6] | | G or C | 1/YR |
| 76-44-8 | Heptachlor | 608 | 0.05 | | G or C | 1/YR |
| 1024-57-3 | Heptachlor Epoxide | 608 | 0.05 | | G or C | 1/YR |
| 58-89-9 | Hexachlorocyclohexane (Lindane) | 608 | 0.05 | | G or C | 1/YR |

**Facility Name: Virginia Power - Possum Point** **VPDES Permit: VA0002071**
**Outfall 004**

| CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (µg/L) | Reporting Result [1] (µg/L) | Sample Type[2] | Sample Frequency[3] |
|---|---|---|---|---|---|---|
| 319-84-6 | Hexachlorocyclohexane/Alpha -BHC | 608 | 0.05 | | G or C | 1/YR |
| 319-85-7 | Hexachlorocyclohexane/Beta-BHC | 608 | 0.05 | | G or C | 1/YR |
| 143-50-0 | Kepone | [5] | [6] | | G or C | 1/YR |
| 121-75-5 | Malathion | [5] | [6] | | G or C | 1/YR |
| 72-43-5 | Methoxychlor | [5] | [6] | | G or C | 1/YR |
| 2385-85-5 | Mirex | [5] | [6] | | G or C | 1/YR |
| 56-38-2 | Parathion | [5] | [6] | | G or C | 1/YR |
| 53469-21-9 | PCB-1242 | 608 | 1.0 | | G or C | 1/YR |
| 11097-69-1 | PCB-1254 | 608 | 1.0 | | G or C | 1/YR |
| 11104-28-2 | PCB-1221 | 608 | 1.0 | | G or C | 1/YR |
| 11141-16-5 | PCB-1232 | 608 | 1.0 | | G or C | 1/YR |
| 12672-29-6 | PCB-1248 | 608 | 1.0 | | G or C | 1/YR |
| 11096-82-5 | PCB-1260 | 608 | 1.0 | | G or C | 1/YR |
| 12674-11-2 | PCB-1016 | 608 | 1.0 | | G or C | 1/YR |
| 1336-36-3 | PCB Total | 608 | 1.0 | | G or C | 1/YR |
| 8001-35-2 | Toxaphene | 608 | 5.0 | | G or C | 1/YR |
| **BASE NEUTRAL EXTRACTABLES** | | | | | | |
| 83-32-9 | Acenaphthene | 625 | 10.0 | | G or C | 1/YR |
| 120-12-7 | Anthracene | 625 | 10.0 | | G or C | 1/YR |
| 92-87-5 | Benzidine | [5] | [6] | | G or C | 1/YR |
| 56-55-3 | Benzo(a) anthracene | 625 | 10.0 | | G or C | 1/YR |
| 205-99-2 | Benzo(b) fluoranthene | 625 | 10.0 | | G or C | 1/YR |
| 207-08-9 | Benzo(k) fluoranthene | 625 | 10.0 | | G or C | 1/YR |
| 50-32-8 | Benzo(a)pyrene | 625 | 10.0 | | G or C | 1/YR |
| 111-44-4 | Bis(2-chloroethyl) ether | [5] | [6] | | G or C | 1/YR |
| 39638-32-9 | Bis(2-chloroisopropyl) ether | 625 | 10.0 | | G or C | 1/YR |
| 85-68-7 | Butyl benzyl phthalate | 625 | 10.0 | | G or C | 1/YR |
| 91-58-7 | 2-Chloronaphthalene | 625 | 20.0 | | G or C | 1/YR |
| 218-01-9 | Chrysene | 625 | 10.0 | | G or C | 1/YR |
| 53-70-3 | Dibenz(a,h) anthracene | 625 | 20.0 | | G or C | 1/YR |
| 84-74-2 | Dibutyl phthalate (Di-n-Butyl Phthalate) | 625 | 10.0 | | G or C | 1/YR |
| 95-50-1 | 1,2-Dichlorobenzene | 625 | 10.0 | | G or C | 1/YR |

**Facility Name: Virginia Power - Possum Point** **VPDES Permit: VA0002071**
**Outfall 004**

| CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (µg/L) | Reporting Result [1] (µg/L) | Sample Type[2] | Sample Frequency[3] |
|---|---|---|---|---|---|---|
| 541-73-1 | 1,3-Dichlorobenzene | 625 | 10.0 | | G or C | 1/YR |
| 106-46-7 | 1,4-Dichlorobenzene | 625 | 10.0 | | G or C | 1/YR |
| 91-94-1 | 3,3 Dichlorobenzidene | (5) | (6) | | G or C | 1/YR |
| 84-66-2 | Diethyl phthalate | 625 | 10.0 | | G or C | 1/YR |
| 117-81-7 | Di-2-Ethylhexyl Phthalate | 625 | 10.0 | | G or C | 1/YR |
| 131-11-3 | Dimethyl Phthalate | 625 | 20.0 | | G or C | 1/YR |
| 121-14-2 | 2,4-Dinitrotoluene | 625 | 10.0 | | G or C | 1/YR |
| 206-44-0 | Fluoranthene | 625 | 10.0 | | G or C | 1/YR |
| 86-73-7 | Fluorene | 625 | 10.0 | | G or C | 1/YR |
| 118-74-1 | Hexachlorobenzene | (5) | (6) | | G or C | 1/YR |
| 87-68-3 | Hexachlorobutadiene | (5) | (6) | | G or C | 1/YR |
| 77-47-4 | Hexachlorocyclopentadiene | 625 | 10.0 | | G or C | 1/YR |
| 67-72-1 | Hexachloroethane | 625 | 10.0 | | G or C | 1/YR |
| 193-39-5 | Indeno(1,2,3-cd) pyrene | 625 | 20.0 | | G or C | 1/YR |
| 78-59-1 | Isophorone | 625 | 10.0 | | G or C | 1/YR |
| 91-20-3 | Naphthalene | 625 | 10.0 | | G or C | 1/YR |
| 98-95-3 | Nitrobenzene | 625 | 10.0 | | G or C | 1/YR |
| 62-75-9 | N-Nitrosodimethylamine | (5) | (6) | | G or C | 1/YR |
| 86-30-6 | N-Nitrosodiphenylamine | 625 | 10.0 | | G or C | 1/YR |
| 621-64-7 | N-Nitrosodi-n-propylamine | (5) | (6) | | G or C | 1/YR |
| 129-00-0 | Pyrene | 625 | 10.0 | | G or C | 1/YR |
| 120-82-1 | 1,2,4 Trichlorobenzene | 625 | 10.0 | | G or C | 1/YR |
| **VOLATILES** | | | | | | |
| 107-02-8 | Acrolein | 624 | 10.0 | | G | 1/YR |
| 107-13-1 | Acrylonitrile | (5) | (6) | | G | 1/YR |
| 71-43-2 | Benzene | 624 | 10.0 | | G | 1/YR |
| 75-25-2 | Bromoform | 624 | 10.0 | | G | 1/YR |
| 56-23-5 | Carbon Tetrachloride | 624 | 10.0 | | G | 1/YR |
| 108-90-7 | Chlorobenzene (Monochlorobenzene) | 624 | 50.0 | | G | 1/YR |
| 124-48-1 | Chlorodibromomethane | 624 | 10.0 | | G | 1/YR |
| 67-66-3 | Chloroform | 624 | 10.0 | | G | 1/YR |
| 75-09-2 | Dichloromethane | 624 | 20.0 | | G | 1/YR |
| 75-27-4 | Dichlorobromomethane | 624 | 20.0 | | G | 1/YR |

**Facility Name: Virginia Power - Possum Point** **VPDES Permit: VA0002071**
**Outfall 004**

| CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (µg/L) | Reporting Result [1] (µg/L) | Sample Type[2] | Sample Frequency[3] |
|---|---|---|---|---|---|---|
| 107-06-2 | 1,2-Dichloroethane | 624 | 10.0 | | G | 1/YR |
| 75-35-4 | 1,1-Dichloroethylene | 624 | 10.0 | | G | 1/YR |
| 156-60-5 | 1,2-trans-Dichloroethylene | 624 | 10.0 | | G | 1/YR |
| 78-87-5 | 1,2-Dichloropropane | [5] | [6] | | G | 1/YR |
| 542-75-6 | 1,3-Dichloropropene | [5] | [6] | | G | 1/YR |
| 100-41-4 | Ethylbenzene | 624 | 10.0 | | G | 1/YR |
| 74-83-9 | Methyl Bromide | 624 | 10.0 | | G | 1/YR |
| 79-34-5 | 1,1,2,2,-Tetrachloroethane | [5] | [6] | | G | 1/YR |
| 127-18-4 | Tetrachloroethylene | 624 | 10.0 | | G | 1/YR |
| 10-88-3 | Toluene | 624 | 10.0 | | G | 1/YR |
| 79-00-5 | 1,1,2-Trichloroethane | [5] | [6] | | G | 1/YR |
| 79-01-6 | Trichloroethylene | 624 | 10.0 | | G | 1/YR |
| 75-01-4 | Vinyl Chloride | 624 | 10.0 | | G | 1/YR |
| **ACID EXTRACTABLES** | | | | | | |
| 95-57-8 | 2-Chlorophenol | 625 | 10.0 | | G or C | 1/YR |
| 120-83-2 | 2,4 Dichlorophenol | 625 | 10.0 | | G or C | 1/YR |
| 105-67-9 | 2,4 Dimethylphenol | 625 | 10.0 | | G or C | 1/YR |
| 51-28-5 | 2,4 Dinitrophenol | 625 | 10.0 | | G or C | 1/YR |
| 534-52-1 | 2-Methyl-4,6-Dinitrophenol | 625 | 10.0 | | G or C | 1/YR |
| 87-86-5 | Pentachlorophenol | 625 | 50.0 | | G or C | 1/YR |
| 108-95-2 | Phenol[8] | 625 | 10.0 | | G or C | 1/YR |
| 88-06-2 | 2,4,6-Trichlorophenol | 625 | 10.0 | | G or C | 1/YR |
| **RADIONUCLIDES** | | | | | | |
| | Gross Alpha Particle Activity | [5] | [6] | | G or C | 1/YR |
| | Beta Particle &Photon Activity | [5] | [6] | | G or C | 1/YR |
| | Strontium 90 | [5] | [6] | | G or C | 1/YR |
| | Tritium | [5] | [6] | | G or C | 1/YR |
| **MISCELLANEOUS** | | | | | | |
| 16887-00-6 | Chlorides (mg/L) | [5] | [6] | mg/L | G | 1/YR |
| 7782-50-5 | Chlorine, Total Residual | [5] | 100 | | G | 1/YR |
| 57-12-5 | Cyanide | 335.2 | 10.0 | | G | 1/YR |
| 122-66-7 | 1,2-Diphenylhydrazine | [5] | 0.1 | | G | 1/YR |

## WATER QUALITY MONITORING
## ATTACHMENT A, PAGE 5 of 6

**Facility Name: Virginia Power - Possum Point** **VPDES Permit: VA0002071**
**Outfall 004**

| CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (µg/L) | Reporting Result [1] (µg/L) | Sample Type[2] | Sample Frequency[3] |
|---|---|---|---|---|---|---|
| N/A | Enterococcus (N/CML) | [5] | [6] | N/CML | G | 1/YR |
| | Hardness (as mg/L $CaCO_3$) | [5] | [6] | mg/L | G | 1/YR |
| 7783-06-4 | Hydrogen Sulfide | [5] | [6] | | G | 1/YR |
| 60-10-5 | Tributyltin[8] | NBSR 85-3295 | [6] | | G | 1/YR |
| | Xylenes (total) | SW 846 Method 8021B | [6] | | G | 1/YR |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment A

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (Φg/L) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment A form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type

G = Grab = An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. For composite metals samples, the individual sample aliquots shall be filtered and preserved immediately upon collection and prior to compositing.

(3) Frequency

1/5 YR = once after the start of the third year from the permit's effective date but 180 days prior to permit expiration.
X = no monitoring required

(4) A specific analytical method is not specified. An appropriate method shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136) which will achieve the listed a quantification level. If the test result is less than the specified QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

| Metal | Analytical Methods |
|---|---|
| Antimony | 1639; 1638 |
| Arsenic** | 1632 |
| Cadmium | 1638; 1639; 1637; 1640 |
| Chromium* | 1639 |
| Chromium VI | 1636 |
| Copper | 1638; 1640 |
| Lead | 1638; 1637; 1640 |
| Mercury | 1631 |
| Nickel | 1639; 1638; 1640 |
| Selenium | 1638; 1639 |
| Silver | 1638 |
| Zinc | 1638; 1639. |

- Chromium III is measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the QL (or specific target value), the result for chromium III can be reported as less than QL.

(5) Any approved method presented in 40 CFR Part 136.

(6) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

(7) Requires continuous extraction.

(8) DEQ's approved analysis for TBT may also be used. (See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science dated November 1996.)

**DEPARTMENT OF ENVIRONMENTAL QUALITY**
Dredge Spoils Monitoring


FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

| DEQ Parameter No. | EPA CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (mg/l) | Reporting Results [1] (mg/l) | Sample Type[2] | Threshold Levels (mg/l) |
|---|---|---|---|---|---|---|---|
| **Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)** | | | | | | | |
| 033 | 7440-38-2 | Arsenic | 1311 | | | G | 5.0 |
| 151 | 7440-39-3 | Barium | 1311 | | | G | 100.0 |
| 216 | 71-43-2 | Benzene | 1311 | | | G | 3.0 |
| 096 | 7440-43-9 | Cadmium | 1311 | | | G | 1.0 |
| 236 | 56-23-5 | Carbon Tetrachloride | 1311 | | | G | 0.5 |
| 333 | 57-74-9 | Chlordane | 1311 | | | G | 0.03 |
| 280 | 108-90-7 | Chlorobenzene | 1311 | | | G | 100.0 |
| 223 | 67-66-3 | Chloroform | 1311 | | | G | 6.0 |
| 016 | 7440-47-3 | Chromium | 1311 | | | G | 5.0 |
| 510 | 95-48-7 | o-Cresol * | 1311 | | | G | 200.0 |
| 509 | 108-39-4 | m-Cresol * | 1311 | | | G | 200.0 |
| 511 | 106-44-5 | p-Cresol * | 1311 | | | G | 200.0 |
| 512 | | Cresols, Total | 1311 | | | G | 200.0 |
| 266 | 106-46-7 | 1,4-Dichlorobenzene | 1311 | | | G | 7.5 |
| 260 | 107-06-2 | 1,2-Dichloroethane | 1311 | | | G | 0.5 |
| 258 | 75-35-4 | 1,1-Dichloroethylene | 1311 | | | G | 0.7 |
| 239 | 121-14-2 | 2,4-Dinitrotoluene | 1311 | | | G | 0.13 |
| 339 | 72-20-8 | Endrin | 1311 | | | G | 0.02 |
| 341 | 76-44-8 | Heptachlor | 1311 | | | G | 0.008 |
| 289 | 118-74-1 | Hexachlorobenzene | 1311 | | | G | 0.13 |
| 290 | 87-68-3 | Hexachlorobutadiene | 1311 | | | G | 0.5 |
| 291 | 67-72-1 | Hexachloroethane | 1311 | | | G | 5.0 |
| 034 | 7439-92-1 | Lead | 1311 | | | G | 5.0 |
| 342 | 58-89-9 | Hexachlorocyclohexane (Lindane) | 1311 | | | G | 0.4 |
| 042 | 7439-97-6 | Mercury | 1311 | | | G | 0.2 |
| 344 | 72-43-5 | Methoxychlor | 1311 | | | G | 10.0 |
| | 78-93-3 | Methyl Ethyl Ketone | 1311 | | | G | 200.0 |
| 294 | 98-95-3 | Nitrobenzene | 1311 | | | G | 2.0 |
| 210 | 87-86-5 | Pentachlorophenol | 1311 | | | G | 100.0 |
| | 110-86-1 | Pyridine | 1311 | | | G | 5.0 |
| 152 | 7782-49-2 | Selenium | 1311 | | | G | 1.0 |
| 037 | 7440-22-4 | Silver | 1311 | | | G | 5.0 |
| 220 | 127-18-4 | Tetrachloroethylene | 1311 | | | G | 0.7 |
| 349 | 8001-35-2 | Toxaphene | 1311 | | | G | 0.5 |
| 602 | 79-01-6 | Trichloroethylene | 1311 | | | G | 0.5 |
| 601 | 95-95-4 | 2,4,5-Trichlorophenol | 1311 | | | G | 400 |
| 602 | 88-06-2 | 2,4,6-Trichlorophenol | 1311 | | | G | 2.0 |
| 173 | 75-01-4 | Vinyl Chloride | 1311 | | | G | 0.2 |

* If o-, m- and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

| DEQ Parameter No. | EPA CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (mg/kg) | Reporting Results[1] (mg/kg) | Sample Type[2] |
|---|---|---|---|---|---|---|
| **Metals (Part B.1.)** | | | | | | |
| 178 | 7429-90-5 | Antimony | [3] | [4] | | G |
| 457 | | Arsenic III | [3] | [4] | | G |
| 441 | 16055-83-1 | Chromium III | [3] | [4] | | G |
| 231 | 18540-29-9 | Chromium VI | [3] | [4] | | G |
| 442 | 744-50-8 | Copper | [3] | [4] | | G |
| 445 | 7440-02-0 | Nickel | [3] | [4] | | G |
| | 7440-28-0 | Thallium | [3] | [4] | | G |
| 448 | 7440-66-6 | Zinc | [3] | [4] | | G |
| **Pesticides/PCB'S (Part B.2.)** | | | | | | |
| 332 | 309-00-2 | Aldrin | [3] | [4] | | G |
| 334 | | Chlorpyrifos Dursban | [3] | [4] | | G |
| -- | 72-54-8 | DDD | [3] | [4] | | G |
| -- | 72-55-9 | DDE | [3] | [4] | | G |
| 335 | 50-29-3 | DDT | [3] | [4] | | G |
| 336 | 8065-48-3 | Demeton | [3] | [4] | | G |
| 337 | 60-57-1 | Dieldrin | [3] | [4] | | G |
| 746 | 959-98-8 | Alpha-Endosulfan | [3] | [4] | | G |
| 640 | 33213-65-9 | Alpha-Endosulfan | [3] | [4] | | G |
| 617 | 1031-07-8 | Endosulfan Sulfate | [3] | [4] | | G |
| -- | 7421-93-4 | Endrin Aldehyde | [3] | [4] | | G |
| 340 | 86-50-0 | Guthion | [3] | [4] | | G |
| -- | 1024-57-3 | Heptachlor Epoxide | [3] | [4] | | G |
| -- | 319-84-6 | Hexachlorocyclohexane (Alpha-BHC) | [3] | [4] | | G |
| -- | 319-85-7 | Hexachlorocyclohexane (Beta-BHC) | [3] | [4] | | G |
| -- | 143-50-0 | Kepone | [3] | [4] | | G |
| 343 | 121-75-5 | Malathion | [3] | [4] | | G |
| 345 | 2385-85-5 | Mirex | [3] | [4] | | G |
| 346 | 56-38-2 | Parathion | [3] | [4] | | G |
| -- | 1336-36-3 | Total PCB | [3] | [4] | | G |
| 641 | 53469-21-9 | PCB-1242 | [3] | [4] | | G |
| 642 | 11097-69-1 | PCB-1254 | [3] | [4] | | G |
| 643 | 11104-28-2 | PCB-1221 | [3] | [4] | | G |
| 644 | 11141-16-5 | PCB-1232 | [3] | [4] | | G |
| 645 | 12672-29-6 | PCB-1248 | [3] | [4] | | G |
| 618 | 11096-82-5 | PCB-1260 | [3] | [4] | | G |
| 646 | 12674-11-2 | PCB-1016 | [3] | [4] | | G |
| **Base Neutral Extractable (Part B.3.)** | | | | | | |
| 273 | 208-96-8 | Acenaphthene | [3] | [4] | | G |
| 275 | 120-12-7 | Anthracene | [3] | [4] | | G |
| -- | 92-87-5 | Benzidine | [3] | [4] | | G |
| 276 | 56-55-3 | Benzo(a) anthracene | [3] | [4] | | G |

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

| DEQ Parameter No. | EPA CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (mg/kg) | Reporting Results[1] (mg/kg) | Sample Type[2] |
|---|---|---|---|---|---|---|
| 648 | 50-32-8 | Benzo(b) fluoranthene (3,4-Bensofluoranthene) | [3] | [4] | | G |
| 278 | 207-08-9 | Benzo(k) fluoranthene | [3] | [4] | | G |
| 277 | 50-32-8 | Benzo(a)pyrene | [3] | [4] | | G |
| -- | 111-44-4 | Bis 2-Chloroethyl Ether | [3] | [4] | | G |
| 279 | 102-60-1 | Bis 2-Chloroiso-Propyl Ether | [3] | [4] | | G |
| 486 | 85-68-7 | Butyl benzyl phthalate | [3] | [4] | | G |
| -- | 91-58-7 | 2-Chloronaphthalene | [3] | [4] | | G |
| 282 | 218-01-9 | Chrysene | [3] | [4] | | G |
| 654 | 53-70-3 | Dibenz(a,h) anthracene | [3] | [4] | | G |
| 206 | 84-74-2 | Dibutyl phthalate | [3] | [4] | | G |
| 259 | 95-50-1 | 1,2-Dichlorobenzene | [3] | [4] | | G |
| 264 | 541-73-1 | 1,3-Dichlorobenzene | [3] | [4] | | G |
| 527 | 91-94-1 | 3,3-Dichlorobenzidine | [3] | [4] | | G |
| 285 | 84-66-2 | Diethyl phthalate | [3] | [4] | | G |
| 170 | 117-81-7 | Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate) | [3] | [4] | | G |
| 286 | 131-11-3 | Dimethyl Phthalate | [3] | [4] | | G |
| 535 | 122-66-7 | 1,2-Dihenylhydrazine | [3] | [4] | | G |
| 287 | 206-44-0 | Fluoranthene | [3] | [4] | | G |
| 288 | 86-73-7 | Fluorene | [3] | [4] | | G |
| 538 | 77-47-4 | Hexachlorocyclopentadiene | [3] | [4] | | G |
| 651 | 193-39-5 | Indeno(1,2,3-cd) pyrene | [3] | [4] | | G |
| 650 | 78-59-1 | Isophorone | [3] | [4] | | G |
| 293 | 91-20-3 | Naphthalene | [3] | [4] | | G |
| 573 | 62-75-9 | N-Nitrosodimethylamine | [3] | [4] | | G |
| 574 | 86-30-6 | N-Nitrosodiphenylamine | [3] | [4] | | G |
| 575 | 621-64-7 | N-Nitrosodi-n-proplyamine | [3] | [4] | | G |
| 296 | 129-00-0 | Pyrene | [3] | [4] | | G |
| 263 | 129-82-1 | 1,2,4 Trichlorobenzene | [3] | [4] | | G |
| **Volatiles (Part B.4.)** | | | | | | |
| 171 | 107-02-8 | Acrolein | [3] | [4] | | G |
| 204 | 107-13-1 | Acrylonitrile (Vinyl cyanide) | [3] | [4] | | G |
| 484 | 75-25-2 | Bromoform | [3] | [4] | | G |
| 652 | 124-48-1 | Chlorodibromomethane | [3] | [4] | | G |
| 649 | 75-09-2 | Dichloromethane (Methylene chloride) | [3] | [4] | | G |
| 244 | 75-27-4 | Dichlorobromomethane | [3] | [4] | | G |
| 262 | 156-60-5 | Trans 1,2-Dichloroethylene | [3] | [4] | | G |
| 261 | 78-87-5 | 1,2-Dichloropropane | [3] | [4] | | G |
| 265 | 542-75-6 | 1,3-Dichloropropene (1,3-Dichlorpropylene) | [3] | [4] | | G |
| 172 | 100-41-4 | Ethylbenzene | [3] | [4] | | G |
| -- | 74-83-9 | Methyl Bromide | [3] | [4] | | G |
| -- | 78-93-3 | 2-Butanone (Methyl Ethyl Ketone (MEK)) | [3] | [4] | | G |
| 596 | 79-34-5 | 1,1,2,2-Tetrachloroethane | [3] | [4] | | G |

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

| DEQ Parameter No. | EPA CAS Number | Parameter | EPA Analysis No. | Quantification Level[1] (mg/kg) | Reporting Results[1] (mg/kg) | Sample Type[2] |
|---|---|---|---|---|---|---|
| 222 | 108-88-3 | Toluene | [3] | [4] | | G |
| 373 | 79-00-5 | 1,1,2-Trichloroethane | [3] | [4] | | G |
| 155 | 79-01-6 | Trichloroethylene | [3] | [4] | | G |
| **Acids Extratables (Part B.5.)** | | | | | | |
| 267 | 95-57-8 | 2-Chlorophenol | [3] | [4] | | G |
| 268 | 120-83-2 | 2,4 Dichlorophenol | [3] | [4] | | G |
| 269 | 105-67-9 | 2,4 Dimethylphenol | [3] | [4] | | G |
| -- | 534-52-1 | 2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol) | [3] | [4] | | G |
| 270 | 51-28-5 | 2,4-Dinitrophenol | [3] | [4] | | G |
| 175 | 108-95-2 | Phenol | [3] | [4] | | G |
| **Miscellaneous (Part B.6.)** | | | | | | |
| 018 | | Cyanide, Total | [3] | [4] | | G |
| 350 | | Tributyltin | [3] | [4] | | G |
| 257 | | TPH (Total Petroleum Hydrocarbons) | [3] | [4] | | G |

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

**Footnotes to Water Quality Monitoring Attachment B**

[1] Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.
Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilograms (mg/kg) unless otherwise specified. Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment B form, where the actual test method QL shall be substituted for "[QL]".

[2] Sample Type:
G = Grab - An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

[3] Any approved method presented in 40 CFR Part 136.

[4] The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.